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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No. : 10/530684 Confirmation No. N/A
Applicant : Jorg Mayer et al.
Filed : April 7, 2005
TC/A.U. : N/A
Examiner : N/A

Title : IMPLANT TO BE IMPLANTED IN BONE TISSUE AND
METHODS FOR PRODUCTION AND IMPLANTATION
THEREOF
Docket No. : FRG-15998
Customer No. : 040854

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment
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In accordance with Rule 56, applicant is aware of the publications listed in the enclosed copy of Patent Office Form PTO/SB/08A. A copy of each of the publications is enclosed herewith.

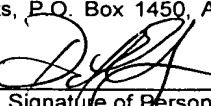
Respectfully submitted,

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By 
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(216) 566-9700

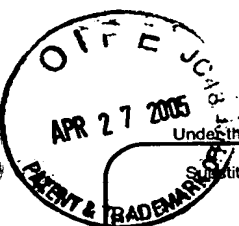
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4/25/2005
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PTO/SB/08A (08-03)

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|------------------------------|------------------------|-------------------|
| Substitute for form 1449/PTO | Application Number | 10/530684 |
| | Filing Date | 04/07/2005 |
| | First Named Inventor | Jorg Mayer et al. |
| | Art Unit | N/A |
| | Examiner Name | N/A |
| Sheet 1 of 4 | Attorney Docket Number | FRG-15998 |

U. S. PATENT DOCUMENTS

| Examiner Initials* | Cite No. ¹ | Document Number | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|-----------------------|--------------------------|--|--------------------------------|--|---|
| | | Number-Kind Code ² (if known) | | | |
| | | US- 4,032,803 | 06-28-1977 | Durr et al. | |
| | | US- 4,248,232 | 02-03-1981 | Englebrecht et al. | |
| | | US- 5,004,422 | 04-02-1991 | Propper | |
| | | US- 5,019,083 | 05-28-1991 | Klapper et al. | |
| | | US- 5,163,960 | 11-17-1992 | Bonutti | |
| | | US- 5,167,619 | 12-01-1992 | Wuchinich | |
| | | US- 5,171,148 | 12-15-1992 | Wasserman et al. | |
| | | US- 5,413,578 | 05-09-1995 | Zahedi | |
| | | US- 5,426,341 | 06-20-1995 | Bory et al. | |
| | | US- 5,562,450 | 10-08-1996 | Gieloff et al. | |
| | | US- 5,593,425 | 01-14-1997 | Bonutti et al. | |
| | | US- 5,709,823 | 01-20-1998 | Hahn | |
| | | US- 5,735,875 | 04-07-1998 | Bonutti, et al. | |
| | | US- 5,752,831 | 05-19-1998 | Padros-Fradera | |
| | | US- 5,871,514 | 02-16-1999 | Wiklund et al. | |
| | | US- 5,871,515 | 02-16-1999 | Wiklund et al. | |
| | | US- 5,897,578 | 04-27-1999 | Wiklund et al. | |
| | | US- 5,919,215 | 07-06-1999 | Wiklund et al. | |
| | | US- 5,941,901 | 08-24-1999 | Egan | |

FOREIGN PATENT DOCUMENTS

| Examiner Initials* | Cite No. ¹ | Foreign Patent Document | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear | T ⁶ |
|-----------------------|--------------------------|---|-----------------------------------|--|---|----------------|
| | | Country Code ³ Number ⁴ Kind Code ⁵ (if known) | | | | |
| | | DE 41 00 636 A1 / | 07-16-1992 | | | |
| | | EP 0 451 932 A1 (English Text) / | 10-16-1991 | Mecon Medizinische | | |
| | | DE G 90 12 044.2 / | 12-06-1990 | | | |
| | | DE 26 55 086 / | 06-15-1978 | | | |
| | | DE G 93 17 757.7 / | 03-03-1994 | | | |
| | | DE 42 09 191 A1 / | 05-13-1993 | | | |

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| U. S. PATENT DOCUMENTS | | | | | |
|------------------------|-----------------------|--|--------------------------------|--|---|
| Examiner Initials* | Cite No. ¹ | Document Number | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | | Number-Kind Code ² (if known) | | | |
| | | US- 5,964,764 | 10-12-1999 | West, Jr. et al. | |
| | | US- 5,993,458 | 11-30-1999 | Vaitekunas et al. | |
| | | US- 5,993,477 | 11-30-1999 | Vaitekunas et al. | |
| | | US- 6,007,539 | 12-28-1999 | Kirsch et al. | |
| | | US- 6,039,568 | 03-21-2000 | Hinds | |
| | | US- 6,056,751 | 05-02-2000 | Fenton, Jr. | |
| | | US- 6,059,817 | 05-09-2000 | Bonutti et al. | |
| | | US- 6,080,161 | 06-27-2000 | Eaves, III et al. | |
| | | US- 6,099,313 | 08-08-2000 | Durken et al. | |
| | | US- 6,132,214 | 10-17-2000 | Suhonen et al. | |
| | | US- 6,139,320 | 10-31-2000 | Hahn | |
| | | US- 6,141,874 | 11-07-2000 | Olsen | |
| | | US- 6,193,516 | 02-27-2001 | Story | |
| | | US- 6,224,373 | 05-01-2001 | Lee et al. | |
| | | US- 6,273,717 | 08-14-2001 | Hahn et al. | |
| | | US- 6,332,885 | 12-25-2001 | Martella | |
| | | US- 6,545,390 | 04-08-2003 | Hahn et al. | |
| | | US- 6,592,609 | 07-15-2003 | Bonutti | |
| | | US- 6,635,073 | 10-21-2003 | Bonutti | |

| FOREIGN PATENT DOCUMENTS | | | | | | |
|--------------------------|-----------------------|---|--------------------------------|---|---|----------------|
| Examiner Initials* | Cite No. ¹ | Foreign Patent Document | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear | T ⁶ |
| | | Country Code ³ Number ⁴ Kind Code ⁵ (if known) | | | | |
| | | DE G 90 12 548.7 ✓ | 01-24-1991 | | | |
| | | DE 196 44 333 A1 ✓ | 04-30-1998 | | | |
| | | GB 2 324 470 A (English Text) ✓ | 10-28-1998 | Customflex, Ltd. | | |
| | | DE 37 23 643 A1 ✓ | 01-26-1989 | | | |
| | | DE 201 13 692 U1 ✓ | 12-20-2001 | | | |
| | | DE 199 16 158.A1 ✓ | 10-19-2000 | | | |

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U. S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

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|--------------------------|-----------------------|---|------------------|---|---|----------------|
| Examiner Initials* | Cite No. ¹ | Foreign Patent Document | Publication Date | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear | T ^o |
| | | Country Code ³ *Number ⁴ *Kind Code ⁵ (if known) | MM-DD-YYYY | | | |
| | | EP 1 044 656 A1 ✓ | 10-18-2000 | | | |
| | | EP 1 044 655 A1 ✓ | 10-18-2000 | | | |
| | | DE 199 16 160 A1 ✓ | 10-26-2000 | | | |
| | | DE 197 35 103 A1 ✓ | 10-29-1998 | | | |
| | | DE 39 19 274 C1 ✓ | 07-12-1990 | | | |
| | | EP 0 534 078 A1 ✓ | 03-31-1993 | | | |

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|-----------------------|--------------------------|---|----------------|
| | | Patent Abstracts of Japan, Bone Fixation Pin and Manufacture Thereof, 12-08-1998 | ✓ |
| | | WO 02/38070 A1, MEDICAL, PREFERABLY DENTAL, HANDPIECE FOR TREATING TISSUE WITH PREFERABLY HIGH FREQUENCY MECHANICAL VIBRATIONS, 05-16-2002 | ✓ |
| | | WO 02/087459 A2, HANDPIECE FOR LINEAR ACTUATION OF A TOOL, PREFERABLY A DENTAL TOOL, 11-07-2002 | ✓ |
| | | WO 94/27558, CERAMINC DENTAL RESTORATIONS, DENTAL PROSTHESES, MEDICAL IMPLANTS AND MOULDED BODIES, AND PROCESS FOR PRODUCING SAME, 12-08-1994 | ✓ |
| | | WO 91/03211, PROCESS FOR PRODUCING A TOOTH CROWN WITH THE AID OF TWO SONOTRODES, DEVICE WORKPIECES USING A SONOTRODE..., 03-21-1991 | ✓ |
| | | WO 88/03391, INTRAALVEOLAR IMPLANT, 05-19-1998 | ✓ |
| | | WO 96/37163, PROCESS AND DEVICE FOR THE COMPUTER-ASSISTED RESTORATION OF TEETH, 11-28-1996 | ✓ |
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